

FIGURE 1

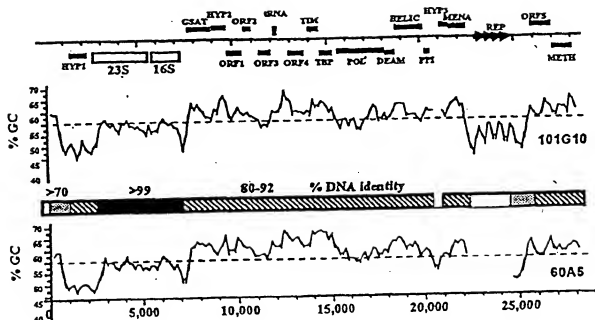


Figure 2

Seq. ID	Gene	Strain	TATA Box		Coding Start	TATA to Start (bp)
81	Hypoth 03	A	AAGCTAGACT	TTTAAT	TGGG ATCCGGCGGGG GCGGCGCATG	----- 25
82		B	AAGCTAAACT	TTTAAT	TGGG ATCCGGCGGAG CCGGCGCGTG	-----
83	Hypoth 02	A	GGAAACTTTG	ATTATA	CGGG CGTGCTGCCG CCGGGCCCAT G-----	26
84		B	GGAAACTTTG	ATTATA	CGGG CGTACATTCC CCGGGCCCAT G-----	
85	ORF 02	A	AAGGCAAGGT	AATAAT	AGCC TGCCGTCTGT AACGGCCGTA TG-----	27
86		B	ACGGCAAGGT	AATAAT	AGCC TGCCGTCCGT ACCTGCCGTA TG-----	
87	ORF 03	A	CATGGAACATA	GATATT	AACC GGTTCGCGG ATCCCATGCA TG-----	27
88		B	CATGGAACATA	GATAAT	AACC GGTCCGCGG GTACAAATGCA TG-----	
89	PPI	A	ATACCGAGAA	GTTATA	GCAG GGTATGGAAT GTGCGCGCGC ATG-----	28
90		B	AGCACGACAA	GTTATA	GCAG GGTACAAAGG AGCAGCGCAC ATG-----	
91 ^{pos}	GSAT	A	ATCCGCCCTG	ATTAAA	TTAT GGGGGGAGCG GCCTGCTGCC GTG-----	28
92 ^{pos}		B	ATCCGCCCTC	ATTAAA	TTAC GGGGGGTACA ACCTGCTGCC GTG-----	
93 ^{pos}	ORF 05	A	CCTTCATACA	CATAAA	TCCC GCTTGGATGT GCGGCTGCGC ATG-----	28
94 ^{pos}		B	ACTTCATACA	CATAAA	TCCC GCCTGAACGG TCGTCCGCGC ATG-----	
95 ^{pos}	deaminase	A	.GGCATATAC	CATAAT	ATGC CGGGCGGTGG CACCATGSCC GTTG-----	29
96 ^{pos}		B	CCGATATATAC	CATAAT	ATGC CGGGCGGGGG CAGGCTGCCC .GTG-----	
97 ^{pos}	RNA helic	A	TGTACGAAAC	CATAAA	ACAA CAGGCCCGCT CAGGGCCGCG CGTG-----	29
98		B	GGGTAGAAAC	CATAAA	ACAA CAGGCCGCGG CAGGGCG. CG CGTG-----	
99 ^{pos}	ORF 06	A	.ACACGCGAG	TATAAA	CGGG GGCCCGGGCG GCGCGTATCA CATG-----	29
100 ^{pos}		B	ATACACGTGG	TATAAA	CAGA GG. CCGGACG GCGCGGACCA CATG-----	
101 ^{pos}	RNA-tyr	A	GCGATAGTTA	TTTAAA	ACTA GGATGCCGAT CACGGATCGT CCGA-----	29
102 ^{pos}		B	GCGATAGTTA	TTTAAA	ACTA GGATGCCGGG CACCGTCTGT CCGA-----	
103 ^{pos}	TBP	A	CCGGGCCCGG	GTTAAA	ATAG CG. CACGGGC GGATCCTGAC CAATG-----	30
104 ^{pos}		B	CCGGGCCCGG	GTTAAA	ATAG AGTGCGGCGG GGCACCGGAT CAATG-----	
105 ^{pos}	TIM	A	GCGTCGATAG	AATAAA	TACG CGCAGGGGGC CCGCTGGCGC GATCGCCCGT G-----	36
106		B	GCGTCGATAG	AATAAA	TACG CGC. GGGGCC GCGGTGC... GATCGCCCGT G-----	
107	Hypoth 01	A	ATTTCAACTA	CATAAA	TGCC TAGTTACGCA GAAATAGCAA ACGACGTACT TCGACTAATG	45
108		B	ACTTCAACTA	CATAAA	TGCC TAGCTACGCA GAAATATCAA ACAAAGTACT TCGACTAATG	
109	ORF 01	A	ACGGCAGGCT	ATTATT	ACCT TGCCCTTGCT TGTA //..G CGGGGTGCGG CAGGGGATG	52
110		B	ACGGCAGGCT	ATTATT	ACCT TGCCCTGTG. TACA //..G AGGGGGCCTG CCGGGAGTG	
111	Methylase	A	CTACAAAGAT	TTTAAG	TGCG CGCCGGGGCA GCCG.//..G ATGTGGGGCA GGCAACATG	104
112		B	CTACAAAGAT	TTTAAG	ACGG CGCGGGTGCC GCCG.//..T GGCAAGGGG CCTATCTTG	
113	16S RNA	A	TCGGCGATGG	TTTATA	TGCC CATGGACGGG CCGATCCGAT CGTACGTGAC GC.//..AAT	220
114		B	CCGGCGATGG	TTTATA	TGCC CATGGACAAG CGCATCCGAT CGTACGTGAC GC.//..AAT	
Archaeal promoter consensus			YTTAAW			

Archaeal promoter
consensus

YTTAAH

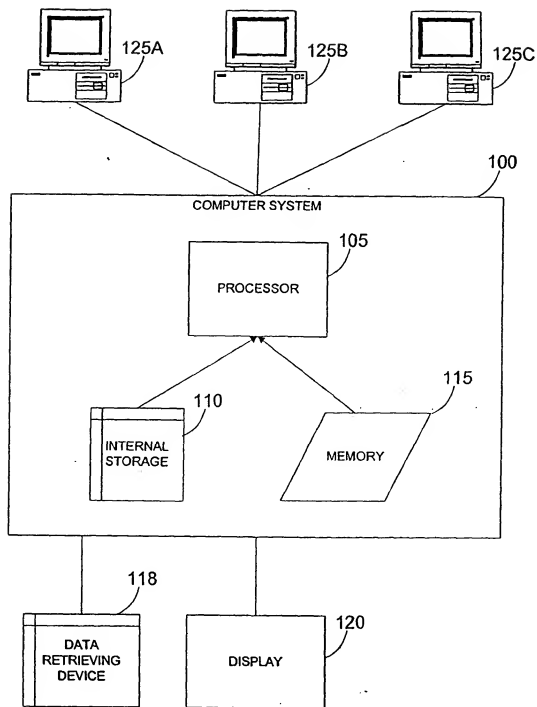


FIGURE 3

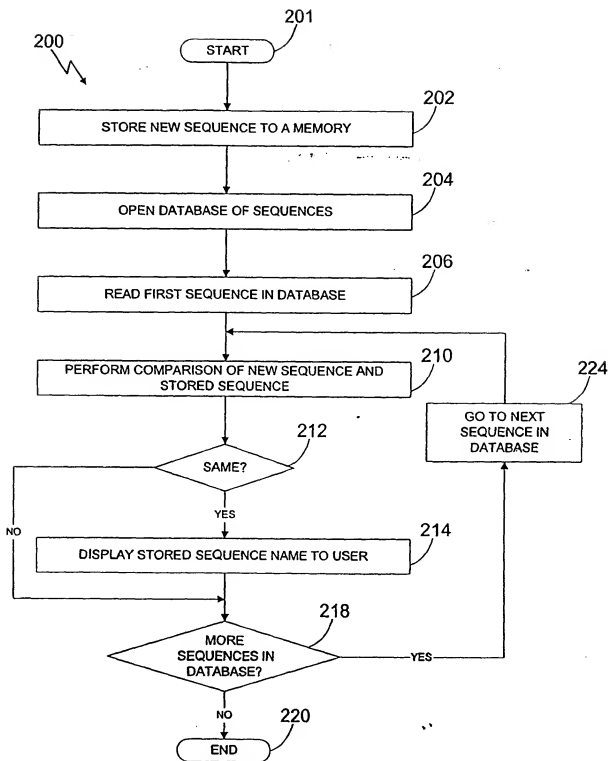


FIGURE 4

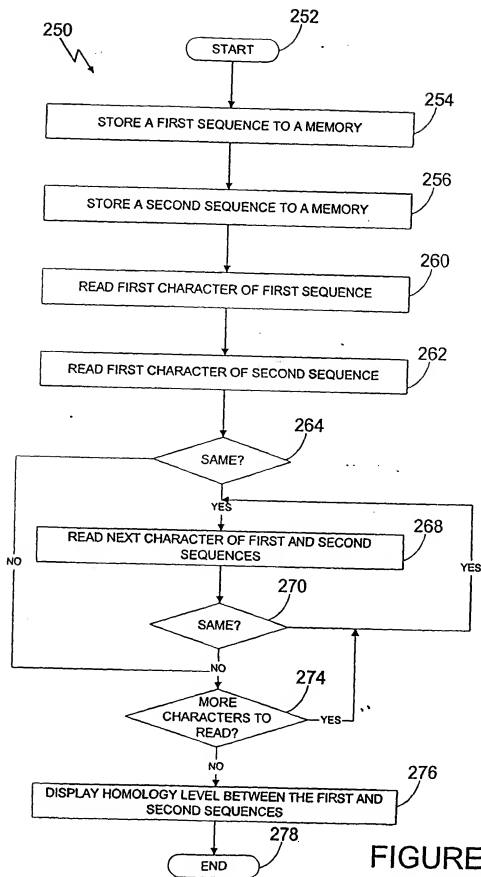


FIGURE 5

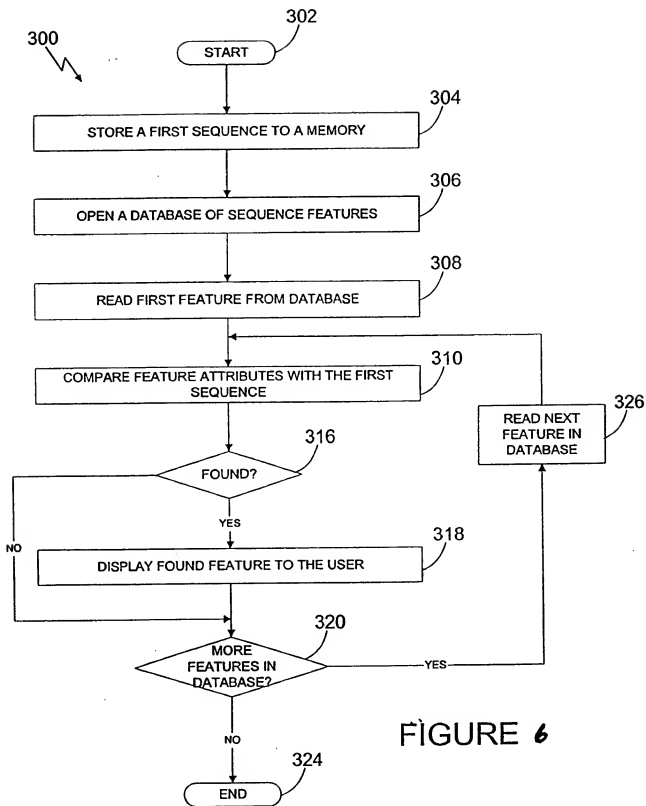


FIGURE 6